Diesel genset powered by JOHN DEERE 88 KVA

Generating Rates		Prime	Standby
Power	kVA	80	88
Power	kW	64	70
Current	(cos Phi=0,8) A	115	127
Standard Voltage	V	400	400
Revolution Per Minute	r.p.m	1500	1500
Rated At Power Factor	Cos Phi	0,80	0,80

Standard Features

- 4 stroke 1500RPM, water cooled heavy duty diesel engine
- Dry type replacable air filter
- Heat-resistant radiator for 50 °C
- Flexible oil pipes and oil draining valve
- Pre-heater
- 4 poles synchrontype, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual
- Protection system and auto / manual mode
- Lubrication oil and anti – freeze

Optional Equipments

- Soundproof canopy
- Automatic transfer switch
- Circuit Breaker
- Trailer
- External fuel tank
- Electronic governor
- Heating system for fuel tank
- Oil heater
- Fuel filling system (Automatic / Manual)
- Analog indicators
- 1 Phase - 3 phase switch plugs
- Alarm system for fuel level
- Remote control and monitoring

Prime Power : Supplying of electrical power at variable load for an unlimited number of hours in the event of normal utility powerfailure according to ISO8528-1. 10% over load capability is available.

Stand By Power : Supplying of electrical power at variable load, in the event of normal utility power failure according to ISO8528-1. This rating is maximum power, no overload capability is available.

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Engine Specifications

Brand		JOHN DEERE
Model		4045TFU20
Engine Power	(kWm / hp)	78,2
Revolution Per Min	(r.p.m)	1500
Total Displacement	(L)	4,5
Cylinders Orientation		4 Vertical Inline
Broke x Stroke	(mm x mm)	106x127
Compression Orientation		17:1
Governor Type		Mechanical
Aspiration System		Turbo
Injection		Direct Injection
Cooling		Water cooled
Electrical System	(VDC)	12 V
Lub-oil Capacity	(L)	13,2
Engine Coolant Capacity	(L)	8,5
Fuel Tank Capacity	(L)	TBA
Maximum Exhaust Temperature	(°C)	600
Maximum Exhaust Gas Flow	(m3/h)	816
Maximum Allowed Back Pressure	(kPa)	7,5
Cooling Air Flow	(m3/min)	TBA
Fuel Consumption 50 %	(L/h)	11,7
Fuel Consumption 75 %	(L/h)	18,2
Fuel Consumption 100 %	(L/h)	22,9

- Replacable cylinder jacket
- Dry type replacable air filter
- Heat-resistant radiator for 50 °C

Alternator Specifications

Standard Voltage	(V)	400
Frequency	(Hz)	50
Stationary Voltage Regulation	(±)	1
Short Circuit Current		300%
Insulation		H
Protection		IP23
Efficiency	(%)	89,9
Overloading		1 Hour - %110
Rated At Power Factor	(cos Phi)	0,80
Total Harmonic Distortion Rate		3
Connection Style		Star
Number of Pole		4
Number of Bearing		Single

- Self-cooled
- Electronic type automatic voltage regulator (AVR)
- 4 poles, self-excitation, brushless, synchrontype alternator



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Dimensions Without Canopy and Weight

WIDTH x LENGTH x HEIGTH	mm	1100x2070x1365
Wet Weight	kg	1261,78

Dimensions With Canopy and Weight

WIDTH x LENGTH x HEIGTH	mm	1100x2650x1890
Wet Weight	kg	1521,78



Control Panel Features

- Diesel and gas genset support
- 400Hz operation support
- 400 event logs full snapshot
- Multiple Automatic test program
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable language
- Waveform display of V&I
- Harmonic analysis of V&I
- Synchroscope & check synch
- 16 Amp MCB & GCB outputs
- 8 configurable digital outputs
- Outputs expandable to 40
- 4 configurable analog outputs
- Battery charge run enabled
- Weekly Operation Schedule
- Dual mutual standby with equal aging of gensets
- Manual speed fine adjust some ECU's
- Automatic fuel pumpcontrol
- Disable protection feature
- Excess protection power
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Waveform display of V&I
- Battery back-up real time clock
- Idle speed control
- All parameters front panel editable
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Free configuration software
- Allow SMS controls
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (USB & RS232)
- Modem & ethernet diagnostic
- Configurable through USB, RS-485,Ethernet and GPRS
- Ready for central monitoring Ethernet and GPRS



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